

WHAT IS CLAIMED IS:

1. A voice controlled system, comprising:
 - a microphone for receiving voice commands and for converting each voice command to an electrical output;
 - a filter system connected to receive the electrical outputs of the microphone and to produce for each voice command a first output corresponding to the high-frequency component of the voice command, and a second output corresponding to the low-frequency component of the voice command; and
 - a processor for processing said first and second outputs of the filter system and for outputting, for each voice command, a first electrical signal when the low-frequency component precedes the high-frequency component in the respective voice command, and a second electrical signal when the high-frequency component precedes the low-frequency component in the respective voice command.
2. The voice controlled system according to Claim 1, wherein said voice commands include a "Yes" command, wherein the low-frequency component from the filter system precedes the high-frequency component, and which is indicated by said first electrical signal output from the processor; and a "Stop" command, wherein the high-frequency component from the filter system precedes the low-frequency component and which is indicated by said second electrical signal outputted from the processor.
3. The voice controlled system according to Claim 1, wherein said processor, in processing said first and second outputs of the filter system for each voice command, outputs a third electrical signal when the first output of the filter system, corresponding to the high-frequency component of the voice command, is below a predetermined threshold.
4. The voice controlled system according to Claim 3, wherein said voice commands also include a "No" command, which is indicated by said third electrical signal output from the processor.
5. The voice controlled system according to Claim 1, wherein said first output produced by the filter system for each voice command corresponds to the component of the voice command having the frequency of the "S" sound, wherein said second output

produced by the filter system for each voice command corresponds to the component of the voice command below the frequency of the "S" sound.

6. The voice controlled system according to Claim 1, wherein said first output produced by the filter system for each voice command corresponds to the component of the voice command above 1 KHz, and wherein the second output produced by the filter system for each voice command corresponds to the component of the voice command below 1 KHz.

7. The voice controlled system according to Claim 1, wherein said filter system includes a high-frequency pass filter connected to receive said microphone output for each command and to produce said first output corresponding to the high-frequency component of the voice command; and a low-frequency pass filter connected to receive said microphone output for each command and to produce said second output corresponding to the low-frequency component of the voice command.

8. A voice controlled system, comprising:

a microphone for receiving voice commands and for converting each voice command to an electrical output;

a filter system connected to receive the electrical outputs of the microphone and to produce, for each voice command, a first output corresponding to the high-frequency component of the voice command, and a second output corresponding to the low-frequency component of the voice command; and

a processor for processing said first and second outputs of the filter system for each voice command and for outputting one electrical signal when the low-frequency component precedes the high-frequency component in the respective voice command, and another electrical signal when said first output of the filter system for each voice command, corresponding to the high-frequency component of the voice command, is below a predetermined threshold.

9. The voice controlled system according to Claim 8, wherein said voice command includes a "YES" command, which is indicated by said one electrical signal outputted from the processor, and a "NO" command, which is indicated by said another electrical signal output from the processor.

10. The voice controlled system according to Claim 9, wherein said processor, in processing said first and second outputs of the filter system for each voice command, also outputs a further electrical signal when the high-frequency component of the voice command precedes the low-frequency component in the respective voice command.

11. The voice controlled system according to Claim 10, wherein said voice commands include a "Stop" command which is indicated by said further electrical signal outputted from the processor.

12. The voice controlled system according to Claim 10, wherein said first output produced by the filter system for each voice command corresponds to the component of the voice command having the frequency of the "S" sound, wherein said second output produced by the filter system for each voice command corresponds to the component of the voice command below the frequency of the "S" sound.

13. The voice controlled system according to Claim 10, wherein said first output produced by the filter system for each voice command corresponds to the component of the voice command above 1 KHz, and wherein the second output produced by the filter system for each voice command corresponds to the component of the voice command below 1 KHz.

14. The voice controlled system according to Claim 10, wherein said filter system includes a high-frequency pass filter connected to receive said microphone output for each command and to produce said first output corresponding to the high-frequency component of the voice command; and a low-frequency pass filter connected to receive said microphone output for each command and to produce said second output corresponding to the low-frequency component of the voice command.

15. A method of controlling a device by voice commands, comprising:

providing the device with:

 a microphone for receiving voice commands and for converting each voice command to an electrical output;

 a filter system connected to receive the electrical outputs of the microphone and to produce for each voice command a first output corresponding to the high-frequency component of the voice command, and a second output corresponding to the low-frequency component of the voice command; and

a processor for processing said first and second outputs of the filter system and for outputting, for each voice command, a first electrical signal when the low-frequency component precedes the high-frequency component in the respective voice command, and a second electrical signal when the high-frequency component precedes the low-frequency component in the respective voice command;

and controlling said device in accordance with the signals outputted from said processor.

16. The method controlled system according to Claim 15, wherein said first output produced by the filter system for each voice command corresponds to the component of the voice command having the frequency of the "S" sound, wherein said second output produced by the filter system for each voice command corresponds to the component of the voice command below the frequency of the "S" sound.

17. The method system according to Claim 15, wherein said first output produced by the filter system for each voice command corresponds to the component of the voice command above 1 KHz, and wherein the second output produced by the filter system for each voice command corresponds to the component of the voice command below 1 KHz.

18. The method according to Claim 15, wherein said voice commands include a "Yes" command, wherein the low-frequency component from the filter system precedes the high-frequency component, and which is indicated by said first electrical signal output from the processor; and a "Stop" command, wherein the high-frequency component from the filter system precedes the low-frequency component and which is indicated by said second electrical signal outputted from the processor.

19. The method according to Claim 15, wherein said processor, in processing said first and second outputs of the filter system for each voice command, outputs a third electrical signal when the first output of the filter system, corresponding to the high-frequency component of the voice command, is below a predetermined threshold.

20. The method according to Claim 19, wherein said voice commands also include a "No" command, which is indicated by said third electrical signal output from the processor.